**Tech Solutions**

### Fieldpiece Instruments: Refrigerant Recovery Machine

The MR45 Recovery Machine features a smart, variable speed one-horsepower DC motor that minimizes liquid slugging and maximizes vapor recovery. This is achieved with the exclusive onboard system monitoring that adjusts motor performance to handle liquid and run twice as fast on vapor. MR45 also steps up low voltage at the power plug to deliver full power to the motor where high voltage drop is a problem. The digital display is precise and easy to see, and the electronics are well protected for use in the rain, cold, and heat. Lightweight at only 22 lb., MR45 is also rugged with rubberized housing and rail slides for extra protection. [www.fieldpiece.com](http://www.fieldpiece.com).

Circle 115 on the reader service card.

### C-RHEX: Cleanable, Reversible, Magnetic Hex Drivers from Malco

Malco’s popular C-RHEX Cleanable, Reversible Magnetic Hex Drivers, now feature a new slimmer design enhancement that reduces the 1/4 in. size by 16% for easier flexibility and productivity in tight spaces. Available in four convenient lengths: 2 in. (MSHC), 2-5/8 in. (MSHLC), 4 in. (MSHMLC) and 6 in. (MSHXLC). The reversible hex socket fits over a 1/4-in. magnet-tipped, hex shaft, and can be quickly reversed to change sizes. Eliminate troublesome buildup of metal shavings with the “Easy Clean Magnet”. Tested torque of the reversible hex chuck driver design is equal to one-piece drivers. Circle 116 on the reader service card.

### Rawal Devices: APR-E Valve

The APR-E Valve offers continuous capacity modulation on any fixed compressor system to a precise discharge air setpoint. This Rawal valve is an Electrically driven, Electronically controlled external compressor unloader providing modulation on any single or multi stage DX system. The APR-E can be easily integrated into an existing BAS/BMS or act as a stand-alone controller for any New or Retrofit applications. Achieve superior system performance with precision discharge air control within 1 degree deviation from setpoint. Obtain the versatility and performance of a chilled water system while on a DX budget with the electronic APR-E Valve! Circle 117 on the reader service card.

### RSES Online Training at Your Convenience

RSES offers a variety of training/certification opportunities on an all-new digital platform, which means you can train and certify when and where you want to. Online certificate courses include RSES Member Webinars; Hydrocarbon Refrigerants; CEH Corner and three Preparing for the NATE Exam for CORE Essentials, Air Conditioning and Heat Pumps, and Gas (Air) Heating. Courses are being added regularly so check back often. Visit [www.rsesonline.training](http://www.rsesonline.training) and sign up today. Circle 118 on the reader service card.
Sanhua's SEC Superheat Control Kit

The innovative Sanhua SEC Superheat Control Kit for LPF electric expansion valves is destined to revolutionize how technicians approach retrofits of TXV-based system failures or new system builds. It includes a superheat controller, pressure sensor, temperature sensor and valve stator. Coupled with the correct size Sanhua LPF EEV, it requires less truck stock, fewer tools and allows faster installation than older TXV setups. One kit and a few valves on your truck can replace any TXV up to 3.1-ton R-404A. All refrigerants, all temperature ranges, any superheat setting. And customers enjoy significant energy savings! For more info: www.sanhuausa.com/us/en/products/aftermarket-service-products. Circle 119 on the reader service card.

TPI View App for Job Management

Test Products International Inc. (TPI) makes it easy and affordable to accurately and reliably gather and manage measurement data. With this free, easy-to-use app, “TPI View,” and a wide range of smart devices, you can measure combustion, airflow, temperature, pressure, CO, and CO2. Job Management within the app allows you to create multiple jobs and attach multiple reports from different TPI Smart Instruments to each job. All reports are PDF files with signatures, date, time and GPS; reports can quickly and easily be emailed and saved for future use. TPI View is available on the App Store and Google Play; visit www.testproductsintl.com for a link. Circle 120 on the reader service card.

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